

Web Dev + Python + JS Cheat Sheet & Interview Questions

HTML Cheat Sheet

HTML Basics:

- <!DOCTYPE html>: Declares the document type
- <html>, <head>, <body>: Structure tags
- <h1> to <h6>: Headings
- <p>: Paragraph
- : Link
- : Image
- , , : Lists
- <div>: Division/container
- <table>, <tr>, <td>: Table elements
- <form>: For user input, uses <input>, <textarea>, <button>

HTML Example:

```
<html>

  <head><title>My Page</title></head>

  <body>

    <h1>Hello!</h1>

    <p>This is a paragraph.</p>

  </body>

</html>
```

CSS Cheat Sheet

CSS Basics:

- Selector { property: value; }
- color, background-color, font-size, margin, padding, border

Example:

```
h1 {
```

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```
color: blue;  
  
font-size: 24px;  
  
}
```

Box Model:

- Content -> Padding -> Border -> Margin

Layout:

- display: flex;
- justify-content: center;
- align-items: center;

Python Cheat Sheet

Python Basics:

- Variables: x = 5
- Data Types: int, float, str, list, dict, bool
- Conditional: if, elif, else
- Loop: for, while
- Function: def func():

Example:

```
def greet(name):  
    return "Hello " + name  
  
greet("Alice")
```

JavaScript Cheat Sheet

JavaScript Basics:

- let, const, var: Variable declaration

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- Data Types: String, Number, Boolean, Array, Object, null, undefined

Function Example:

```
function greet(name) {  
  return "Hello " + name;  
}
```

Arrow Function:

```
const greet = (name) => "Hello " + name;
```

Conditionals and Loops:

```
if (x > 5) {...} else {...}
```

```
for (let i = 0; i < 5; i++) {...}
```

DOM Manipulation:

```
document.getElementById("demo").innerHTML = "Changed!";
```

Event Listener:

```
<button onclick="sayHi()">Click me</button>
```

```
function sayHi() { alert("Hello!"); }
```

Interview Questions

HTML/CSS:

1. What's the difference between HTML and CSS?
2. What are some common HTML tags and their purposes?
3. How does CSS control layout and design?
4. What is Flexbox in CSS and when would you use it?

Python:

5. What are Python data types?

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6. How do you define a function in Python?
7. What's the difference between a list and a dictionary?
8. How do loops work in Python?
9. How would you collect and process form data in HTML and Python?

JavaScript:

10. What is JavaScript and where is it used?
11. How do `var`, `let`, and `const` differ?
12. What is the difference between `==` and `===`?
13. What are arrow functions and why are they used?
14. How do you manipulate the DOM with JavaScript?
15. What is the purpose of `this` in JavaScript?